AMENDMENTS TO THE CLAIMS:

1.-216. (Cancelled)

217. (Previously Presented) A spinal implant, comprising:

an elongate bone portion formed from a cross-sectional bone slice taken from a diaphysis of a long bone having an outer cortical bone wall surrounding an inner medullary canal, said elongate bone portion having a longitudinal axis and including:

- a first end portion;
- a second end portion arranged generally opposite said first end portion;
- a first bone engaging surface;
- a second bone engaging surface arranged generally opposite said first bone engaging surface;

a first sidewall extending between said first and second bone engaging surfaces and including a recessed area disposed between said first and second end portions, said recessed area defined by a partial portion of the medullary canal of the long bone and defining a concave outer surface extending along said longitudinal axis between said first and second end portions from said first bone engaging surface to said second bone engaging surface; and

a second sidewall arranged generally opposite said first sidewall relative to said longitudinal axis, said second sidewall extending between said first and second bone engaging surfaces and including a convex outer surface extending along said longitudinal axis between said first and second end portions from said first bone engaging surface to said second bone engaging surface; and

wherein said concave outer surface of said first sidewall extends generally parallel with and is positioned opposite said convex outer surface of said second sidewall to provide said elongate bone portion with an elongate crescent-shaped outer cross-section in a plane including said longitudinal axis.

218. (Previously Presented) A system including a pair of the spinal implants of claim 217 wherein said pair of spinal implants includes a first implant and a second

implant, said first and second implants positioned adjacent one another with said concave

outer surface of said first implant facing said concave outer surface of said second implant

with said concave outer surfaces defining a chamber therebetween.

219. (Previously Presented) The system of claim 218 further comprising an

osteogenic material disposed within said chamber defined between said concave outer

surfaces of said first and second implants.

220. (Previously Presented) The system of claim 218 wherein said first and second

implants are positioned such that said longitudinal axis of said first implant lies at an angle

oblique angle relative to said longitudinal axis of said second implant.

221. (Previously Presented) The implant of claim 217 wherein said elongate

bone portion has a generally rectangular cross-section in a plane including the longitudinal

axis.

222. (Previously Presented) The implant of claim 217 wherein each of said first and

second bone engaging surfaces is substantially planar.

223. (Previously Presented) The implant of claim 222 wherein each of said first and

second bone engaging surfaces includes ridges or teeth.

224. (Previously Presented) The implant of claim 222 wherein each of said first

and second bone engaging surfaces is crescent-shaped.

225. (Previously Presented) The implant of claim 217 wherein said first and second

bone engaging surfaces are separated by a first height adjacent said first end portion and by a

second height adjacent said second end portion, wherein said first height is greater than the

second height.

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226. (Previously Presented) The implant of claim 217 further comprising a first

endwall extending between said first and second bone engaging surfaces, wherein said

first endwall includes one or more engagement features adapted to engage an implant

holder.

227. (Previously Presented) The implant of claim 226 wherein said engagement

features comprise a recess or a projection configured to engage the implant holder.

228. (Previously Presented) The implant of claim 226 wherein said engagement

features comprise an opening extending through said first endwall to said concave outer

surface of said first sidewall.

229. (Previously Presented) The implant of claim 228 wherein said opening is

threaded.

230.-239. (Cancelled)

240. (Previously Presented) A method of forming a spinal implant, comprising:

providing a long bone having a diaphysis;

removing a cross-sectional bone slice from the diaphysis of the long bone, the

cross-sectional bone slice including an outer cortical bone wall surrounding an inner

medullary canal having a length;

cutting the bone slice along the length of the medullary canal and dividing the

bone slice into a plurality of bone slice segments, with each of the bone slice segments

including a partial portion of the outer cortical bone wall and a partial portion of the

medullary canal; and

forming the spinal implant of claim 217 from one of the plurality of bone slice

segments, with the recessed area of the first sidewall defined by the partial portion of the

medullary canal.

241. (Currently Amended) The method of claim 240 further comprising forming

the spinal implant of claim 217 from each of the plurality of bone slice segments obtained

from a single bone slice.

242. (Previously Presented) The method of claim 240 wherein the cutting of the

bone slice along the length of the medullary canal comprises dividing the bone slice into

three bone slice segments, with each of the three bone slice segments including a partial

portion of the outer cortical bone wall and a partial portion of the inner medullary canal.

243. (Currently Amended) The method of claim 242 further comprising forming

the spinal implant of claim 217 from each of the three bone slice segments obtained from

a single bone slice.

244. (Currently Amended) The method of claim 240 further comprising forming

a cylindrical bone dowel from one of the bone slice segments; and

forming the spinal implant of claim-217 from one of the remaining bone slice

segments.

245.-249. (Cancelled)

250. (Previously Presented) A method of forming a spinal implant, comprising:

providing a long bone having a diaphysis;

removing a cross-sectional bone slice from the diaphysis of the long bone, the

cross-sectional bone slice including an outer cortical bone wall surrounding an inner

medullary canal having a length;

cutting the bone slice along the length of the medullary canal and dividing the bone

slice into a plurality of bone slice segments, with each of the bone slice segments including a

partial portion of the outer cortical bone wall and a partial portion of the medullary canal; and

forming an elongate bone portion from one of the plurality of bone slice segments, the

elongate bone portion having a longitudinal axis and including:

a first end portion;

a second end portion arranged generally opposite the first end portion;

a first bone engaging surface;

a second bone engaging surface arranged generally opposite the first bone

engaging surface; and

a first sidewall extending between the first and second bone engaging surfaces

and including a recessed area disposed between the first and second end portions, the recessed

area defined by the partial portion of the medullary canal and defining a concave outer surface

extending along the longitudinal axis between the first and second end portions from the first

bone engaging surface to the second bone engaging surface.

251. (Previously Presented) The method of claim 250 further comprising

forming the elongate bone portion from each of the plurality of bone slice segments

obtained from a single bone slice.

252. (Previously Presented) The method of claim 250 wherein the cutting of the

bone slice along the length of the medullary canal comprises dividing the bone slice into

three bone slice segments, with each of the three bone slice segments including a partial

portion of the outer cortical bone wall and a partial portion of the inner medullary canal.

253. (Previously Presented) The method of claim 252 further comprising

forming the elongate bone portion from each of the three bone slice segments obtained

from a single bone slice.

254. (Previously Presented) The method of claim 250 further comprising

forming a cylindrical bone dowel from one of the bone slice segments; and

forming the elongate bone portion from one of the remaining bone slice segments.

255. (Previously Presented) The method of claim 250 wherein the elongate bone

portion has a generally rectangular cross-section in a plane including the longitudinal axis.

256. (Previously Presented) The method of claim 250 wherein each of the first and second bone engaging surfaces is substantially planar.

each of the first and second bone engaging surfaces with a plurality of ridges or teeth.

258. (Previously Presented) The method of claim 250 wherein the elongate bone

(Previously Presented) The method of claim 256 further comprising providing

portion further includes a second sidewall arranged generally opposite the first sidewall

relative to the longitudinal axis, the second sidewall extending between the first and second

bone engaging surfaces and including a convex outer surface extending along the longitudinal

axis between the first and second end portions from the first bone engaging surface to the

second bone engaging surface; and

257.

wherein the concave outer surface of the first sidewall extends generally parallel with

and is positioned opposite the convex outer surface of the second sidewall to provide the

elongate bone portion with an elongate crescent-shaped outer cross-section in a plane

including the longitudinal axis.

259. (Withdrawn) The method of claim 250 wherein the elongate bone portion

further includes a second sidewall arranged generally opposite the first sidewall relative to the

longitudinal axis, the second sidewall extending between the first and second bone engaging

surfaces and including a substantially planar outer surface extending along the longitudinal

axis between the first and second end portions from the first bone engaging surface to the

second bone engaging surface; and

wherein the concave outer surface defined by the first sidewall is positioned opposite

the substantially planar outer surface of the second sidewall relative to the longitudinal axis.

260. (Withdrawn) The implant of claim 259 wherein the first sidewall includes:

a first substantially planar outer surface adjacent the first end portion and a second

substantially planar outer surface adjacent the second end portion, each of the first and second

substantially planar outer surfaces extending between the first and second bone engaging

surfaces; and

wherein the concave outer surface extends axially between the first and second

substantially planar outer surfaces.

261. (Previously Presented) The method of claim 250 wherein the first and second

bone engaging surfaces are separated by a first height adjacent the first end portion and by a

second height adjacent the second end portion, wherein the first height is greater than the

second height.

262. (Previously Presented) The method of claim 250 wherein the elongate bone

portion further includes a first endwall extending between the first and second bone

engaging surfaces, wherein the first endwall includes one or more engagement features

adapted to engage an implant holder.

263. (Previously Presented) The implant of claim 217 wherein one of said first

and second end portions comprises an insertion end, said insertion end being shaped to

facilitate insertion into a vertebral cavity.

264. (Previously Presented) The implant of claim 263 wherein said insertion end

is tapered to facilitate insertion into the vertebral cavity.

265. (Previously Presented) The implant of claim 264 wherein said insertion end

includes:

a first tapered surface extending from said first bone engaging surface; and

a second tapered surface extending from said second bone engaging surface; and

wherein said first and second tapered surfaces are inwardly tapered toward one

another along said insertion end.

266. (Previously Presented) The implant of claim 265 wherein said insertion end

includes a third tapered surface extending from said convex outer surface of said second

sidewall.

267. (Previously Presented) The implant of claim 266 wherein said insertion end

includes a fourth tapered surface extending from said concave outer surface of said first

sidewall; and

wherein said third and fourth tapered surfaces taper toward one another along said

insertion end.

268. (Previously Presented) The implant of claim 264 wherein said insertion end

includes:

a first tapered surface extending from said convex outer surface of said second

sidewall; and

a second tapered surface extending from said concave outer surface of said first

sidewall; and

wherein said first and second tapered surfaces are inwardly tapered toward one

another along said insertion end.

269. (Previously Presented) The implant of claim 264 wherein said insertion end is

bounded on at least three sides by tapered surfaces.

270. (Previously Presented) The implant of claim 263 wherein said insertion end is

bullet-shaped to facilitate insertion into the vertebral cavity.

271.-276. (Cancelled)